

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/001766

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H03G1/00 H03G3/30

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H03G H04B H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 909 643 A (AIHARA YUUKICHI) 1 June 1999 (1999-06-01) column 3, lines 30-57 figure 1	1-15
A	WO 01/67621 A (QUALCOMM INC) 13 September 2001 (2001-09-13) the whole document	1-15
A	US 5 296 821 A (PETERSEN MICHAEL W ET AL) 22 March 1994 (1994-03-22) column 2, line 32 - column 3, line 10 figure 4	1-15
A	EP 1 229 642 A (SONY INT EUROP GMBH) 7 August 2002 (2002-08-07) cited in the application paragraphs '0001! - '0045! figure 1	1-15

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

3 June 2004

Date of mailing of the international search report

29/06/2004

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Goethals, F

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/001766

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5909643	A	01-06-1999	JP	9148852 A	06-06-1997
			CN	1154610 A , B	16-07-1997
<hr/>					
WO 0167621	A	13-09-2001	US	6721368 B1	13-04-2004
			AU	4338401 A	17-09-2001
			CA	2401891 A1	13-09-2001
			CN	1461522 T	10-12-2003
			EP	1264411 A2	11-12-2002
			JP	2004500775 T	08-01-2004
			WO	0167621 A2	13-09-2001
<hr/>					
US 5296821	A	22-03-1994	NONE		
<hr/>					
EP 1229642	A	07-08-2002	EP	1229642 A1	07-08-2002
<hr/>					